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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/537,993

04/10/2006

Keiichi Yamamoto

4662-28

1366

23117

7590

07/09/2008

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EXAMINER

PAUL, JESSICA MARIE

ART UNIT

PAPER NUMBER

4171

MAIL DATE

DELIVERY MODE

07/09/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/537,993	Applicant(s) YAMAMOTO ET AL.	
	Examiner Jessica Paul	Art Unit 4171	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 7 and 10 provide for the use of a radiation-curable resin and (A) a compound including a phosphite group and a phenolic hydroxyl group, respectively; but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 7 and 10 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd. v. Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

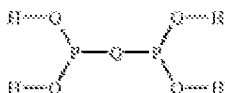
A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

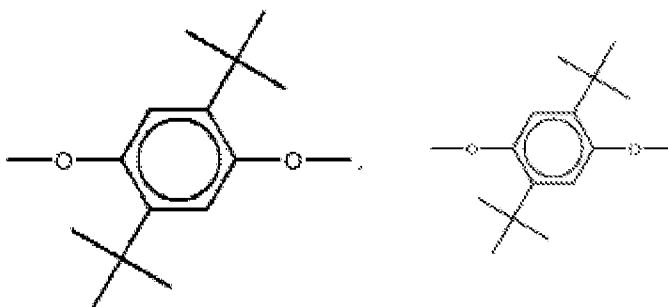
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3. Claims 1-3 are rejected under 35 U.S.C. 102 (e) as being anticipated by Wu et al. (U.S. Patent No. 6759461).

4. Regarding claims 1, 2, and 3; Wu et al. discloses a phenolic compound, including a phosphite group and a phenolic hydroxyl group, of the following formula (I):



Wherein Q is



(col1, line 53; clm1)

5. Wu et al. also discloses a polymer composition comprising a polymer and 0.01-5% of the phenolic phosphite compound having a formula (I) as an antioxidant, based on the weight of the polymer (col2, line28). The composition and range as disclosed by Wu et al. is identical to formula (3) of the instant application and the range provided by the prior art significantly overlaps the range required by the applicant.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 2-4, 8, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shustack (U.S. Patent No. 5146531), and further in view of Wu et al. (U.S. Patent No. 6759461).

8. Regarding claims 4-6, Shustack teaches an ultraviolet radiation-curable primary and secondary coating composition for optical fibers (abs), wherein the primary coating composition of the patented invention comprises: (A) 20-80% by weight of the total composition of a urethane acrylate system (col7, line1), (B) 5-50% by weight of the total composition of an alkyl acrylate or (meth)acrylate-based monomer (col9, line8), and optionally (C) 0.1-3% by weight of the total composition of a stabilizer such as organic phosphites, hindered phenols, mixtures thereof, and the like (col12,line42).

9. Regarding claims 8 and 9, Shustack discloses a process for preparing a coated optical fiber, wherein the process comprises: (i) applying to an optical glass fiber a primary coating layer, (ii) applying atop said primary coating layer a secondary coating layer, and (iii) radiation-curing in situ said primary and secondary coating layers (col16, line1). Shustack fails to teach a specified stabilizer, such as organic surfactants, hindered phenols, or mixtures thereof.

10. The disclosure of Wu et al. is adequately set forth in paragraphs 4-5 and is incorporated herein by the reference. Wu et al. fails to teach a radiation curable resin composition and the process of using that composition in an optical fiber dual coating system.

11. Hindered phenols, used as long-term stabilizers, are the most favored type of primary antioxidants for thermoplastics, while organic phosphites are used as efficient processing stabilizers for polyolefin protection on a wide commercial scale. The combination of hindered phenols with organophosphites has been widely used by the polymer industry to provide a powerful synergism for the protection of polymers (col1, line18). In light of such benefit, it would have been obvious to take the ultraviolet radiation-curable optical fiber dual coating system as taught by Shustack, in combination with the phenolic phosphite compound as taught by Wu et al., and thereby arrive at the claims of the instant application.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica Paul whose telephone number is (571)270-5453. The examiner can normally be reached on Monday thru Friday 7:30a - 5:00p; alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Tarazano can be reached on 571-272-1515. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ling-Siu Choi/
Primary Examiner, Art Unit 1796

Jessica Paul
Examiner
Art Unit 4171

/JMP/